

Scout Report sent out



Noted in the NID File



Location map pinned



Approval or Disapproval Letter



Date Completed, P. & A, or  
operations suspended

8-9-59

Pin changed on location map



Affidavit and Record of A & P



Water Shut-Off Test



Gas-Oil Ratio Test



Well Log Filed



# FILE NOTATIONS

Entered in NID File \_\_\_\_\_  
 Entered On S R Sheet \_\_\_\_\_  
 Location Map Pinned \_\_\_\_\_  
 Card Indexed ☒ \_\_\_\_\_  
 IWR for State or Fee Land \_\_\_\_\_

Checked by Chief \_\_\_\_\_  
 Copy NID to Field Office \_\_\_\_\_  
 Approval Letter \_\_\_\_\_  
 Disapproval Letter \_\_\_\_\_

## COMPLETION DATA:

Date Well Completed 8-9-59  
 OW \_\_\_\_\_ WW \_\_\_\_\_ TA \_\_\_\_\_  
 GW \_\_\_\_\_ OS \_\_\_\_\_ PA K

Location Inspected 9-1-  
 Bond released \_\_\_\_\_  
 State of Fee Land \_\_\_\_\_

LOGS FILED

Drill Log 16-9-58

Electric Logs (PND. 1) 4

E. \_\_\_\_\_ H. \_\_\_\_\_ BEI 2 GRD 2 MISC 2  
 UNL \_\_\_\_\_ MALL \_\_\_\_\_ SALT 2 OTHER \_\_\_\_\_

# THE SUPERIOR OIL COMPANY

DRILLING & PRODUCTION DEPT.

P. O. BOX 200

CASPER, WYOMING

August 8, 1958

Oil and Gas Conservation Commission  
State Capitol Building  
Salt Lake City, Utah

Attention: Mr. Cleon B. Feight

As discussed in our phone conversation of this date you will find attached two (2) copies of Notice of Intention to Drill from Iron Wash Unit #23-2 located in the NE SW of Section 2, T24S R13E, Emery County, Utah.

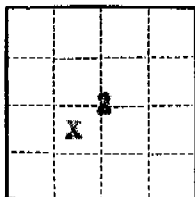
Superior is applying for a blanket bond to cover drilling in the State of Utah. We will forward the bond to your office as soon as received by us.

THE SUPERIOR OIL COMPANY



W. H. Fraser

WHF/cw



(SUBMIT IN TRIPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Land Office State of Utah  
Lease No. HL 6602  
Unit Iron Wash

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....	<input checked="" type="checkbox"/>	SUBSEQUENT REPORT OF WATER SHUT-OFF.....	
NOTICE OF INTENTION TO CHANGE PLANS.....		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.....	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....		SUBSEQUENT REPORT OF ALTERING CASING.....	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL.....		SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR.....	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....		SUBSEQUENT REPORT OF ABANDONMENT.....	
NOTICE OF INTENTION TO PULL OR ALTER CASING.....		SUPPLEMENTARY WELL HISTORY.....	
NOTICE OF INTENTION TO ABANDON WELL.....			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

August 8, 1958

Iron Wash Unit

Well No. 23-2 is located 2099 ft. from N line and 1885 ft. from E line of sec. 2

NE SW Section 2  
(1/4 Sec. and Sec. No.)

245  
(Twp.)

13E  
(Range)

Salt Lake  
(Meridian)

Wildcat  
(Field)

Emery  
(County or Subdivision)

Utah  
(State or Territory)

ground level

The elevation of the ~~surface~~ above sea level is 4529 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Propose to drill well to test Madison formation to approximately 6000'.

Will set 10-3/4" surface casing to about 1000' with cement circulated to surface.

Will set 7" casing on top of or through any producing formation encountered.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company The Superior Oil Company

Address P. O. Box 200

Casper, Wyoming

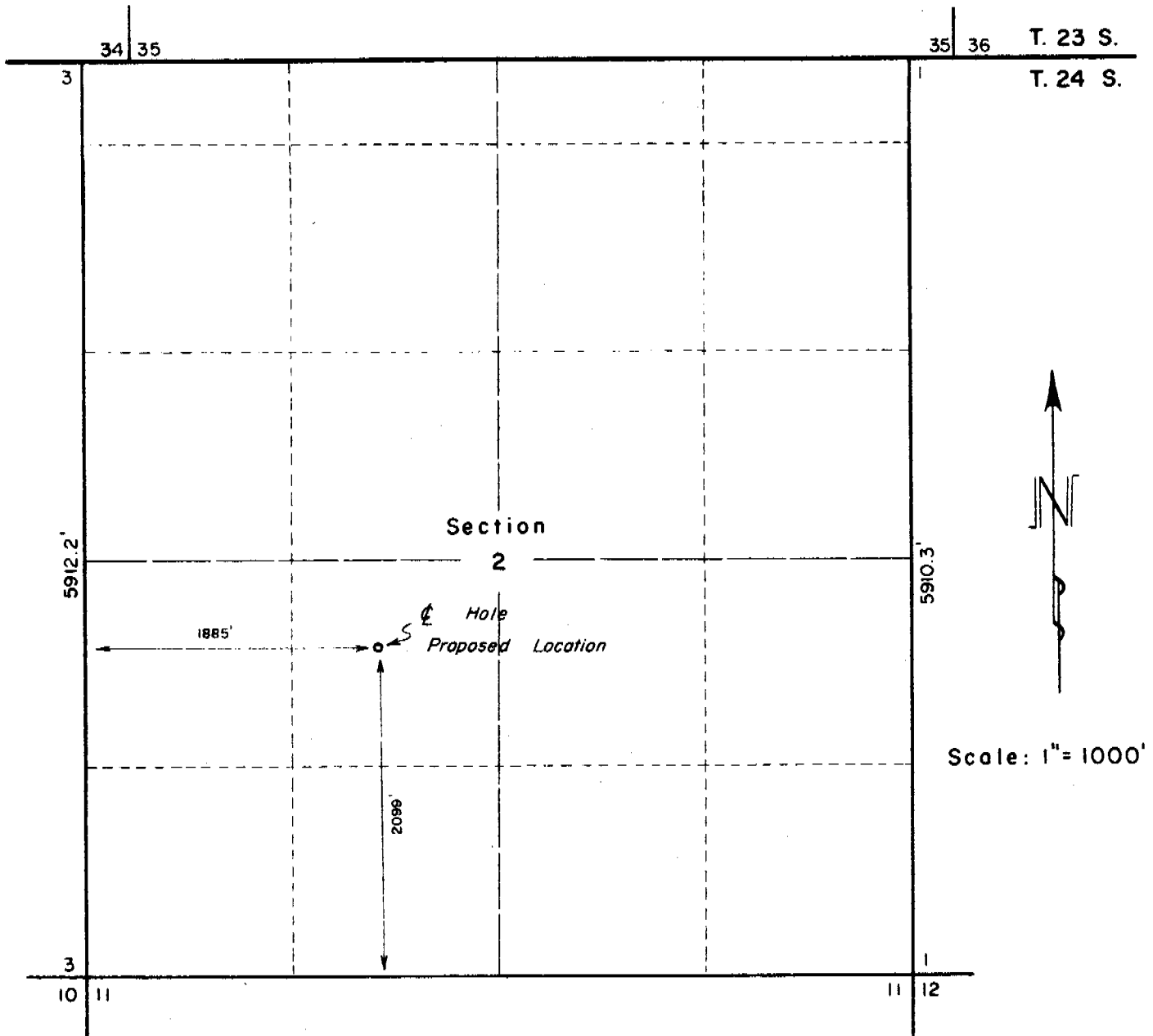
By

*W.H.F. Case*

Title

District Engineer

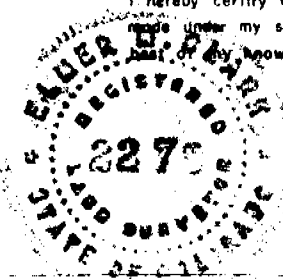
# CERTIFICATE OF SURVEY



## WELL: The Superior Oil Co. — 23-2 Location, Iron Wash Area

Located 2099 feet North of the South line and 1885 feet East of the West line of Section 2.  
 Township 24 South                      Range 13 East                      Salt Lake Meridian  
 Emery County, Utah  
 Existing ground elevation determined at 4529 feet based on U. S. G. S. datum.

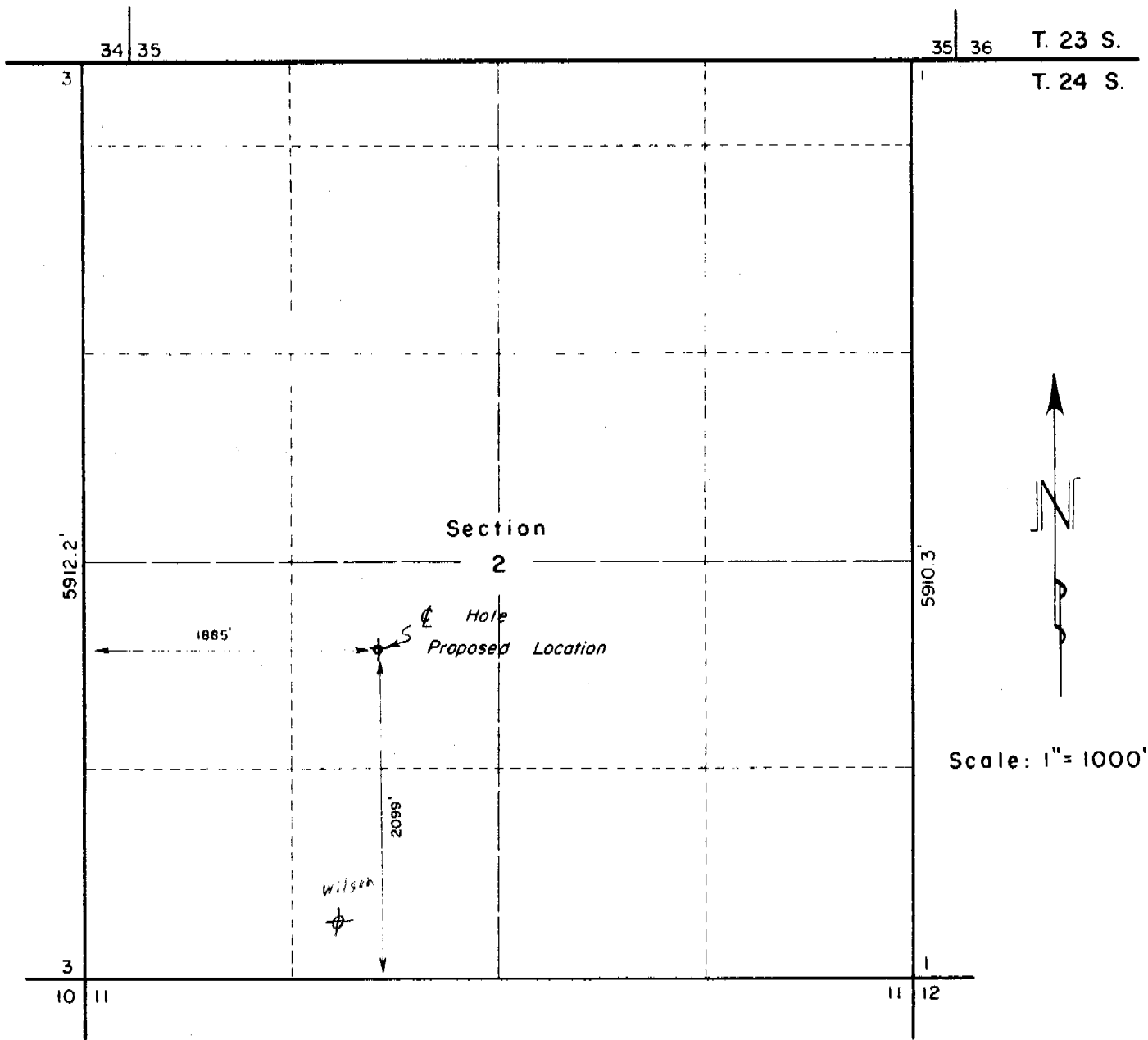
I hereby certify the above plat represents a survey made under my supervision and is accurate to the best of my knowledge and belief.



*Elmer M. Clark*  
 ELMER M. CLARK  
 Registered Land Surveyor  
 St. of Colo. (No. 2279)

PLANET ENGINEERS, INC.  
 Durango, Colorado  
 July 28, 1958

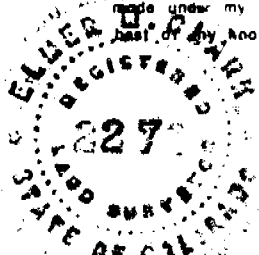
# CERTIFICATE OF SURVEY



## WELL: The Superior Oil Co. — 23-2 Location, Iron Wash Area

Located 2099 feet North of the South line and 1885 feet East of the West line of Section 2.  
 Township 24 South Range 13 East Salt Lake Meridian  
 Emery County, Utah  
 Existing ground elevation determined at 4529 feet based on U. S. G. S. datum.

I hereby certify the above plat represents a survey  
 made under my supervision and is accurate to the  
 best of my knowledge and belief.



*Emer M. Clark*

EMER M. CLARK  
 Registered Land Surveyor  
 St. of Colo. (No. 2279)

PLANET ENGINEERS, INC.  
 Durango, Colorado

July 28, 1958

SUPERVISOR, OIL AND GAS OPERATIONS:

DESIGNATION OF SUB-OPERATOR AND AGENT

STANDARD OIL COMPANY OF CALIFORNIA, hereinafter referred to as "Standard," designated as Unit Operator of the Iron Wash Unit, Emery County, Utah, in Section 4 of the Iron Wash Unit Agreement (serial number 14-08-COI-4681) approved February 24, 1958, by Arthur S. Baker, Acting Director, U. S. Geological Survey, hereby designates The Superior Oil Company, 550 South Flower Street, Los Angeles, California, hereinafter referred to as "Superior," as Sub-Operator and Agent for the following described portion of the Iron Wash Unit Area:

Township 23 South, Range 13 East, S.L.M.

Section 26: All  
Section 27: All  
Section 28: E $\frac{1}{2}$   
Section 33: All  
Section 34: All  
Section 35: All  
Section 36: W $\frac{1}{2}$

Township 24 South, Range 13 East, S.L.M.

Section 1: All  
Section 2: All  
Section 3: All  
Section 4: All  
Section 5: E $\frac{1}{2}$  (Unsurveyed)  
Section 9: NE $\frac{1}{4}$   
Section 10: All  
Section 11: All  
Section 12: All  
Section 13: N $\frac{1}{2}$   
Section 14: N $\frac{1}{2}$ , SW $\frac{1}{4}$   
Section 15: NE $\frac{1}{4}$

with full authority to act in Standard's behalf in complying with the terms of said unit agreement and regulations applicable thereto insofar as such terms and regulations relate to the above-described portion of the Iron Wash Unit and on whom the Supervisor or his representative may serve written or oral instructions in securing compliance with the Oil and Gas Operating Regulations with respect to operations in the above-described portion of the Iron Wash Unit Area.

It is understood that this designation does not relieve Standard of responsibility for compliance with the terms of the Iron Wash Unit Agreement and the Oil and Gas Operating Regulations. It is also understood that this designation of Sub-Operator does not constitute an assignment of any interest in the unit.

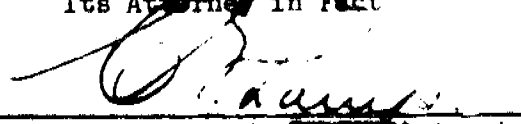
In case of default on the part of Superior, Standard will make full and prompt compliance with all regulations, unit terms or orders of the Secretary of the Interior or his representative.

This designation shall remain in force as long as the Iron Wash Unit Agreement is in effect for the lands described above or a portion thereof provided that with the approval of the Director of the U. S. Geological Survey, Standard and Superior can mutually terminate this designation at an earlier date.

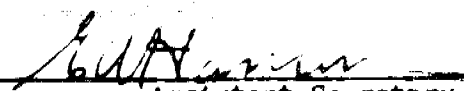
STANDARD OIL COMPANY OF CALIFORNIA

By STANDARD OIL COMPANY OF CALIFORNIA,  
WESTERN OPERATIONS, INC.  
Its Attorney in Fact

By

  
Contract Agent

By

  
Assistant Secretary

August 4, 1958

Date



STATE OF CALIFORNIA

County of \_\_\_\_\_

ss.

On this \_\_\_\_\_ day of \_\_\_\_\_, A. D. 19\_\_\_\_, before me,  
the \_\_\_\_\_ County of \_\_\_\_\_, a Notary Public in and for  
residing therein, duly commissioned and sworn, personally appeared \_\_\_\_\_

known to me to be the \_\_\_\_\_  
of the corporation described in and that executed the within instrument, and also known to me  
to be the person \_\_\_\_\_ who executed the within instrument on behalf of the corporation therein  
named, and acknowledged to me that such corporation executed the same.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal, in the  
County of \_\_\_\_\_, the day and year in this certificate first above  
written.

Notary Public in and for the \_\_\_\_\_  
County of \_\_\_\_\_, State of California

My Commission Expires:

\_\_\_\_\_, 19\_\_\_\_.

STATE OF CALIFORNIA

County of \_\_\_\_\_

ss.

On this \_\_\_\_\_ day of \_\_\_\_\_, A. D. 19\_\_\_\_, before me,  
said County and State, personally appeared \_\_\_\_\_, a Notary Public in and for

known to me to be the person \_\_\_\_\_ whose name \_\_\_\_\_ subscribed to the within instrument,  
and acknowledged to me that \_\_\_\_\_ he \_\_\_\_\_ executed the same.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal the day  
and year in this certificate first above written.

Notary Public in and for said County and State

My Commission Expires:

\_\_\_\_\_, 19\_\_\_\_.

STATE OF CALIFORNIA

City and County of San Francisco

ss.

On this 4th day of August, in the year 1958, before  
me, Edmund E. Kelly, a Notary Public in and for said City and County and  
State, residing therein, duly commissioned and sworn, personally appeared \_\_\_\_\_

C. E. LAMP and E. A. HANSEN

known to me to be the Contract Agent and Assistant Secretary, respectively, of Standard Oil  
Company of California, Western Operations, Inc., and known to me to be the persons who  
executed the within instrument on behalf of said Standard Oil Company of California, Western  
Operations, Inc., the corporation that executed and whose name is subscribed to the within  
instrument as the Attorney in Fact of Standard Oil Company of California, and acknowledged  
to me that they subscribed the name of Standard Oil Company of California thereto as principal  
and the name of Standard Oil Company of California, Western Operations, Inc. as Attorney in  
Fact for said Standard Oil Company of California and that said Standard Oil Company of  
California, Western Operations, Inc. executed the same as such Attorney in Fact.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my Official Seal, at my  
office in the City and County and State aforesaid the day and year in this certificate above  
written.

Edmund E. Kelly  
Notary Public in and for said City and County of  
San Francisco, State of California

My Commission Expires:

Jan 29, 1960.

Displaced 50 sack plug to 1670'. Final pressure 10000#.

Checked top of plug @ 1390'. Well continued to flow stream of water.

Displaced 50 sack plug to 1600'. Final pressure 10000#.

Checked top of plug @ 1486'. Well still flowing  $\frac{1}{2}$ " stream of water.

Displaced 25 sack plug to 1320'. Final pressure 20000#.

Checked plug after 12 hours. No water flow.

Dumped 5 sack plug down annulus between 10-3/4" & 4 7". Dumped 10 sacks into top of 7".

Cut off both strings of casing 4' below ground level and erected dry hole marker.

10/18/52

August 11, 1958

The Superior Oil Company  
P. O. Box 200  
Casper, Wyoming

Attention: W. H. Fraser, District Engineer

Gentlemen:

This is to acknowledge receipt of your notice of intention to drill well No. Iron Wash Unit 23-2, which is to be located 2099 feet from the south line and 1885 feet from the west line of Section 2, Township 24 South, Range 13 East, SUM, Emery County, Utah.

This letter is to confirm our verbal approval of August 8, 1958, to drill the above mentioned well.

Yours very truly,

OIL & GAS CONSERVATION COMMISSION

OLSON B. FEIGER  
SECRETARY

Copies

cc: State Land Board  
Room 105, State Capitol  
Salt Lake City, Utah

Don Russell, Dist. Eng.  
URCS, Federal Building  
Salt Lake City, Utah

The Superior Oil Company  
 #23-2 Iron Wash Unit  
 Sec. 2-T24S-R13E  
 Emery County, Utah  
 2099' FSL - 1885' FWL  
 Wildcat

Spud 8/19/58  
 Abd 11/19/58  
 TD 5326  
 PB 1902  
 Elev 4521 gnd  
 4531 DF  
 IP Temp abd

Casing record:

Set	10 3/4" @	1016'	w/	600	sx
Set	7"	1925'	w/	200	sx

Electric log tops:

Chinle	1263
Shinarump	1530
Moenkopi	1562
Sinbad limestone	2038
Coconino	2200
Cutler	2830
Permian Carbonate	2960
Hermosa	3200
Fault or Unconformity	3450-60
Fault or Unconformity	3695-3775
Weathered Mississippian	3745
Unweathered Mississippian	3775
Elbert	4910
Lynch	5170

8-19-58: Drilling 126'.  
 8-20-58: Drilling 475' - sandy shale.  
 8-21-58: Reaming at 180'. PTD 551.  
 8-22-58: Reaming at 476'.  
 8-25-58: Drilling 945' - sand.  
 8-26-58: PTD 1025'. Reaming at 865'. Prep to set surf pipe.  
 8-27-58: Prep to drill out.  
 8-28-58: SDR  
 8-29-58: Drilling 1278'.  
 8-30-58: Drilling 1352'.  
 9-1-58: Sample descriptions:

1514-27 - ss, medium-coarse, tite  
 1527-47 - ss, medium to coarse grained, conglomeratic, some porosity,  
 fairly well stained, some black asphaltic dead stain, brown live stain  
 with cut and some fluorescence, brown low gravity oil.

9-2-58: DST #1: (SP) 1527-47, op 1 hr, fair flow air decreased to dead in  
 30 minutes. Recovered 110' muddy water; ISTP 750# in 30 minutes,  
 FP 70-90#, ESTP 800# in 1 hr, WH 950-1050#.

Drilling 1611'.

9-3-58: Drilling 1610' - silt, light gray.  
 1808 - some thin spotty streaks of stain, 15 units on gas analyser,  
 very slight cut, some very slight fluorescence, brown low gravity  
 oil in mud.

- 9-10-58: DST #6: (SP) 2240-85, open 2 hours, good blow of air getting weak at end of 2 hour test. Recovered 2050' fluid (90' mud, 1960' sulphur water); ISIP 932# in 30 minutes, FP 120-922#, PSTP 940# in 30 minutes, HH 1161-1142#.
- Drilling 2431' - sand, no show.
- 9-11-58: Drilling 2517' - sandstone, no show.
- 9-12-58: Drilling 2591' - sand, no show.
- 9-15-58: Drilling 2677' (6° off) - sand, medium grained, white, white-gray, tite, well cemented, slight trace white limestone.
- 9-16-58: Drilling 2764' - sandstone with some red and green shale and gypsum. (8° off).
- 9-17-58: Drilling 2823' - sand, very fine grained, slightly dolomitic, well cemented, tite, trace green shale and gypsum. (7 3/4° off).
- 9-18-58: Drilling 2850' - sand, green to green-gray, very fine grained, hard and tite, lots of pyrite.
- 2830-40 - sand, green to green-gray, very fine grained, hard and tite, lots of pyrite.
- 2840-50 - dolomite, tan, buff, very finely crystalline, hard and tite.
- 9-19-58: Drilling 2924' - sandstone, very fine-medium grained, white to green-gray, hard, dense, tite, pyritic, trace dolomite, no show. (6 3/4° deviation).
- 9-22-58: Drilling 3083' - dolomite, buff-tan, dense, crypto-crystalline, no show, chert, white-orange, translucent. (5 3/4° deviation).
- 9-23-58: Drilling 3140' - dolomite, cherty, pink conglomerate (5 1/2° deviation).
- 9-24-58: Drilling 3187' - interbedded anhydrite and dolomite, dark gray-brown, finely succrosic, pinpoint porosity, no show, no fluorescence. (4 1/2° dev.)
- 9-25-58: Drilling 3262' - medium, dark gray dolomite with dark gray shale. (4 1/2° deviation).
- 9-26-58: Drilling 3387' - dolomite, buff-tan, finely succrosic with much gray dolomite, interbedded anhydrite.
- 9-29-58: Drilling 3671' - dolomite, mottled, white-red, finely crystalline, finely silty. (3 1/4° deviation at 3359').
- 9-30-58: PTD 3753', making trip. Dolomite, light tan, trace mottled red-gray, finely crystalline, trace black shale, trace red silt. (2 3/4° deviation at 3712').
- 10-1-58: Drilling 3858' - dolomite, white, finely crystalline, very slightly silty in part, trace small vuggy porosity, trace fossil fragments. (30° deviation at 3834').
- 10-2-58: Drilling 3951' - dolomite, very pale pink, very light tan, very finely crystalline, dense, slightly silty, trace white siltstone, firm, slightly calcareous. (3° deviation).
- 10-3-58: Drilling 4093' - dolomite, white to pink, also mottled white and pink, silty, trace interbedded anhydrite.
- 10-5-58: Core #3: 4310-40, recovered 27.9'. Core barrel jammed. Dolomite, white-pink, crystalline, partly dense, some anhydrite, fair to very good porosity (small vugs to pinpoint), no shows, appears wet.

#### Core Analysis

	Perm	Por	Oil	Wtr
4310-11	0.10	13.2	3.8	51.5
12-13	0.19	10.8	1.9	64.9
14-15	2.00	17.4	1.2	68.0
16-17	0.16	16.5	0.0	59.4
18-19	0.04	8.6	0.0	47.7
20-21	0.19	16.1	1.2	78.3
22-23	0.13	13.4	0.0	59.0
24-25	0.65	15.9	0.0	56.6
26-27	0.06	10.8	0.0	75.0
28-29	0.02	8.5	2.4	63.6
30-31	0.01	12.7	6.3	74.0
32-33	0.06	10.6	1.9	67.9
34-35	0.34	9.5	2.1	82.1
36-37	0.02	9.4	0.0	6.28

- 9- 4-58: Core #1: 1840-1865, recovered 23' and jammed:  
 2' siltstone, gray-green, dense, no show.  
 1' limestone, brown, finely crystalline, silty, dense, no porosity, spotted stain, trace of bleeding oil.  
 1' dolomite, gray, silty, dense, no show.  
 1' dolomite, shaly, spotted stain, dense, no porosity.  
 7' shale, gray-green, silty, hard, no show.  
 6' shale, gray-green, hard, vertically fractured, free oil on frac faces, bleeding oil at fracs.  
 3' dolomite, brown, sandy, finely crystalline, well stained, brown-black, bleeding oil, asphaltic odor, vertically fractured, free oil on frac faces, poor porosity except fracs.  
 2' dolomite, as above with shale streaks, streaks of stain, badly fractured.

DST #2: 1807-65, open 2 hours, fair blow of air immediately, decreased to weak in 2 hours. Recovered 363' fluid - 175' black-brown oil, 188' MOCM; ISIP 600# in 30 minutes, FP 100-150#, FSIP 275# in 1 hour, HH 950-900#. Estimated gravity 20°.

- 9- 4-58: Core #2: 1865-85, recovered 20'. Core barrel jammed.  
 2' shale, light gray-green, some spotted stain in one tite fracture, slightly dolomitic.  
 5' shale, gray-green, good vertical fractures, vugry, bleeding oil and free oil on fracture faces.  
 3' dolomite, gray-brown, spotted stain, finely crystalline, dense, no visible porosity  
 10' shale, green, trace stain on few tite fractures.  
 Drilling to 1942'.

DST #3: 1875-1942, open 1 hour, weak blow of air for 3 minutes, died, bypassed tool, after 30 minutes, fair blow of air immediately to dead in 13 minutes. Recovered 110' mud; ISIP 75# in 1 hour, FP 75-100#, FSIP 100# in 30 minutes, HH 1050-1050#.

Core Analysis						
	MD	VF	Por.	Wtr.	Oil	VF
1843	0.02		5.1	62.8	25.5	"
1858	0.04		8.5	18.8	67.0	"
1859	0.03		8.2	24.4	62.2	"
1860	0.04		9.3	21.5	64.5	"
1861	0.09		5.5	30.9	52.7	"
1862	0.08		13.1	24.4	61.1	"

27° gravity API, retarded.  
 1941-82 (getting silty) - silt and sandstone.

DST #4: 1942-82, open 1½ hours, strong blow of air immediately decreasing to dead in 70 minutes. Recovered 1822' fluid (280' mud, 1542' brackish water); ISIP 900# in 1 hour, FP 800-900#, FSIP 900# in 1 hour, HH 1050-1000#.

- 9- 7-58: 2008-40, less staining, slight break 2030-40, limestone, oolitic, vugry, fair-good stain.

DST #5: 2041-65, open 2 hours, fair blow of air immediately, decreasing slightly at end of test. Recovered 95' mud, 1220' salt water; ISIP 800# in 30 minutes, FP 75-500#, FSIP 800# in 1 hour, HH 1050-950#. PTD 2095, prep to Ø and

- 9- 8-58: Drilling 2260' - wet, specks dead asphaltic stain.  
 9- 9-58: Drilling 2359 - sandstone, no show.

- 10- 6-58: Making trip 4402 - dolomite, white-pink-tan, crystalline.  
(Sample very fine from reaming and contaminated from cleaning mud tanks). (3° deviation).
- 10- 7-58: Drilling 4474' - dolomite, white, crystalline, with some milky chert, no show.
- 10- 8-58: PTD 4472', running logs.
- 10- 9-58: Drilling 4501' - dolomite, cream, finely crystalline, trace porosity, chert, milky to cream.
- 10-10-58: Drilling 4619' - dolomite, white, succrosic to silty, some porosity, some dolomite, tan, slightly succrosic to dense, trace white chalky residue.
- 10-13-58: Drilling 4919' - dolomite, pink-tan, dense, to fragmental, trace red and green shale.
- 10-14-58: Drilling 4962' - dolomite, white to buff, finely crystalline, sandy with shale, green, sub-waxy.
- 10-15-58: Drilling 5014'.
- 10-16-58: Drilling 5065' - dolomite, white, mottled red, very sandy, very shaly. Section has hardened considerably - using 2 bits a day. Have had about 160' of Elbert.
- 10-17-58: Drilling 5127' - dolomite, tan, slightly sandy (much less sandy than above), fine-medium crystalline. Drilling faster now than past two days. Have had little anhydrite.
- 10-20-58: TD 5325', preparing to log. Lynch 5160 - little pinpoint porosity near top - questionable vugular porosity near bottom.
- 10-21-58: Prep to equalize plugs.  
50 sx at 5250.  
50 sx at 3850.  
150 sx plug back total depth at 2100.  
CO to 1925 and set pipe.
- 10-22-58: Equalized plugs as above.  
CO to 1925, circulating and conditioning mud.
- 10-23-58: Underreamed 9" hole to 11" hole from 1775' to 1828', still reaming.
- 10-24-58: Underreamed from 1828-1925. Pulling reamer.
- 10-27-58: Installed tubing head and Xmas tree. Moving off rig.
- 10-28-58: Moving in completion tools.
- 10-29-58: " " " " "
- 10-30-58: Rigging up " " "
- 10-31-58: PTD 1902.  
Pf 1800-85 with 6 jets per foot.
- 11- 3-58: Ran bailer to 1902, bailed 1 BNO/1 hour.  
Let set 1 hour and bailed 10 gals NO.  
Let set 1 hour and recovered 10 gals NO.  
Ran swab twice, no recovery.  
Acidized perfs 1800-85 with 500 gallons MA.  
Swabbed 3 1/4 BLO & AW in 8 1/2 hours.  
Swabbed 0.83 bbls in 2 hours.  
Swabbed 1.24 bbls in 3 hours, 18.2° gravity, cut 0.2% BS&W.  
Sandfrac with 7500 gallons Big Flat crude and 10,000# sand.  
Flowed 90.18 BLO in 11 hours.  
Flowed 8.34 bbls in 4 hours.  
Swabbed 86.8 BLO in 1 1/2 hours.  
Swabbed 103.54 BO in 15 hours, 17.7° gravity, cut 0.2% BS&W.  
Recovered 29 1/4 BLO with 18 bbls to go.

11- 4-58: Swabbed 18 BO in 7 hours, 17.5° gravity, cut 0.8% BS&W.  
Swabbed total 316 bbls - 2 bbls over LO.  
Ran rods and tubing. Released rig.  
Putting on pump.

11- 5-58: Putting on pump and connecting tanks.

11- 8 -58: Pumped 82½ BF in 19 hours, 80 bbls sulphur water, 2½ BO.

11- 9-58: Pumped 8 BW in 2½ hours. Pump off.  
Pumped 49 bbls sulphur water in 12 hours, no oil.

11-10-58: Shut down.

11-11-58: Pumped 38.77 BW in 9 hours.

11-12-58: Pumped 41.62 BW in 8½ hours. Pumped off and shut down.

11-13-58: Pumped 13.81 BW in 2 3/4 hours. Pumped off and shut down.

11-14-58: Pumped 12.18 BW in 2 3/4 hours. Pumped off and shut down.

11-15-58: Pumped 12.60 BW in 2 hours 40 minutes.

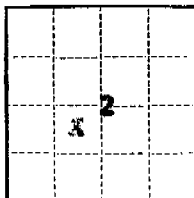
11-16-58: Pumped 12.14 BW in 2 hours 33 minutes.

11-17-58: Pumped 11.69 BW in 2 hours 20 minutes.

11-18-58: Pumped 11.27 BW in 1 hour and 35 minutes.

11-19-58: Shut down.  
Operations suspended. Tubing pulled, surface equipment removed.  
Casing capped.





(SUBMIT IN TRIPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Land Office State of Utah  
Lease No. ML 6602  
Unit Iron Wash

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....		SUBSEQUENT REPORT OF WATER SHUT-OFF.....	
NOTICE OF INTENTION TO CHANGE PLANS.....		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.....	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....		SUBSEQUENT REPORT OF ALTERING CASING.....	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL.....		SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR.....	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....		SUBSEQUENT REPORT OF ABANDONMENT.....	
NOTICE OF INTENTION TO PULL OR ALTER CASING.....		SUPPLEMENTARY WELL HISTORY.....	
NOTICE OF INTENTION TO ABANDON WELL.....	<input checked="" type="checkbox"/>		

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

October 21, 1958

**Iron Wash Unit**  
Well No. 23-2 is located 2099 ft. from [S] line and 1835 ft. from [W] line of sec. 2  
NE/4 SW/4 Sec. 2 24S 13E Salt Lake  
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)  
Wildest Emery Utah  
(Field) (County or Subdivision) (State or Territory)

The elevation of the ground level ~~surface~~ above sea level is 4529 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Propose to plug well in the following manner:

Total Depth: 5326'.

Plug #1 - Equalize 50 sacks cement with bottom of open end DP at 5250'.

Plug #2 - Equalize 50 sacks cement with bottom of open end DP at 3850'.

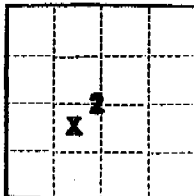
Plug #3 - Equalize 150 sacks cement with bottom of open end DP at 2100'.

Will clean out plug to 1925' and set 7" 20# J-55 R-2 STD ST&C new casing with 200 sacks cement. Will attempt to complete in the approximate interval 1804' to 1887'.

Verbal approval by D. F. Russell, 10-18-58.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company The Superior Oil Company  
Address P. O. Box 200  
Casper, Wyoming  
By W.H. Froese  
Title District Engineer



(SUBMIT IN TRIPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Land Office State of Utah  
Lease No. ML 6602  
Unit Iron Wash

**CONFIDENTIAL**

**SUNDRY NOTICES AND REPORTS ON WELLS**

NOTICE OF INTENTION TO DRILL.....	SUBSEQUENT REPORT OF WATER SHUT-OFF.....	
NOTICE OF INTENTION TO CHANGE PLANS.....	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.....	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....	SUBSEQUENT REPORT OF ALTERING CASING.....	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL.....	SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR.....	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....	SUBSEQUENT REPORT OF ABANDONMENT.....	
NOTICE OF INTENTION TO PULL OR ALTER CASING.....	SUPPLEMENTARY WELL HISTORY.....	<b>X</b>
NOTICE OF INTENTION TO ABANDON WELL.....		

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

December 2, 1958

**Iron Wash Unit**

Well No. 23-2 is located 2099 ft. from N line and 1885 ft. from W line of sec. 2

NE/4 SW/4 Section 2  
(1/4 Sec. and Sec. No.)

24S  
(Twp.)

13E  
(Range)

Salt Lake  
(Meridian)

Wildcat  
(Field)

Emery  
(County or Subdivision)

Utah  
(State or Territory)

The elevation of the kelly bushing ~~drumhead~~ above sea level is 4529 ft.

**DETAILS OF WORK**

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

**Spud: August 18, 1958**

**Total Depth: 5326'**

**Temporarily Abandoned: November 17, 1958**

**DST #1 1527-47 Straddle Test**

Tool open 1 hour, shut in 1 hour. Recovered 110' 8.9# water cut mud.  
BHFP 70#-90#, FSIP 800#, Hqd. 950#.

(cont'd)

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

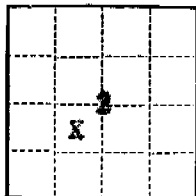
Company The Superior Oil Company

Address P. O. Box 200  
Casper, Wyoming

**PLEASE KEEP THIS INFORMATION CONFIDENTIAL**

By W H Frazer  
DDK

Title District Engineer



(SUBMIT IN TRIPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

CONFIDENTIAL

Land Office State of Utah

Lease No. ML 6602

Unit \_\_\_\_\_

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL		SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
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NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL		<b>Subsequent Report of Temporary Abandonment</b>	<b>X</b>

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

December 2, 1958

**Iron Wash Unit**

Well No. 23-2 is located 2099 ft. from SW line and 1885 ft. from W line of sec. 2

NE/4 SW/4 Section 2

(1/4 Sec. and Sec. No.)

24S

(Twp.)

13E

(Range)

Salt Lake

(Meridian)

Wildcat

(Field)

Emery

(County or Subdivision)

Utah

(State or Territory)

**kelly bushing**

The elevation of the ~~surface~~ **kelly bushing** above sea level is 4529 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Well has been temporarily abandoned in the following manner:

1. Rods and tubing have been removed from the well.
2. Pumping unit removed.
3. All surface production equipment has been removed.
4. Steel plate has been welded over casing stub.

Work completed: 11-19-58.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company The Superior Oil Company

Address P. O. Box 200

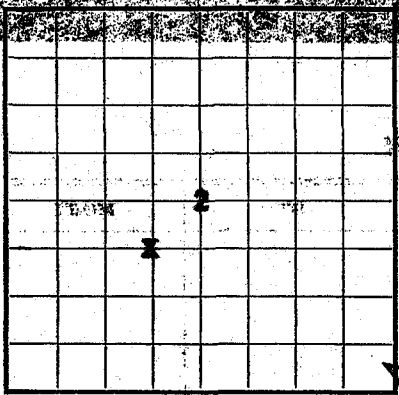
Casper, Wyoming

**PLEASE KEEP THIS INFORMATION CONFIDENTIAL**

By W H FRIED

Title District Engineer

DEC 12 1958

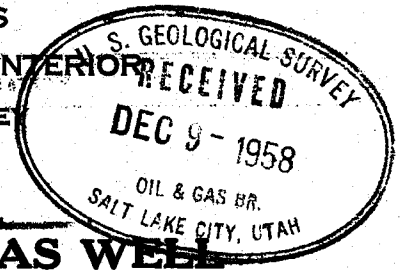


LOCATE WELL CORRECTLY

NOT FOR PUBLIC INSPECTION

U. S. LAND OFFICE  
SERIAL NUMBER  
LEASE OR PERMIT TO PROSPECT  
**Iron Wash Unit**

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY



**CONFIDENTIAL**  
**LOG OF OIL OR GAS WELL**

Company The Superior Oil Company Address P. O. Box 200, Casper, Wyoming  
Lessor or Tract Iron Wash Unit Field Wildcat State Utah  
Well No. 23-2 Sec. 2 T. 24S R. 13E Meridian Salt Lake County Emery  
Location 2099 ft. <sup>[N.]</sup><sub>[S.]</sub> of 3 Line and 1835 ft. <sup>[E.]</sup><sub>[W.]</sub> of W Line of SW/4 Elevation 4529' **KB**  
(Derrick floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed W H Frazer Title DISTRICT ENGINEER  
Date December 8, 1958

The summary on this page is for the condition of the well at above date.

Commenced drilling August 18, 1958. Finished drilling November 24, 1958.

**OIL OR GAS SANDS OR ZONES**  
(Denote gas by G)

No. 1, from 1800 to 1835 No. 4, from \_\_\_\_\_ to \_\_\_\_\_  
No. 2, from \_\_\_\_\_ to \_\_\_\_\_ No. 5, from \_\_\_\_\_ to \_\_\_\_\_  
No. 3, from \_\_\_\_\_ to \_\_\_\_\_ No. 6, from \_\_\_\_\_ to \_\_\_\_\_

**IMPORTANT WATER SANDS**

No. 1, from \_\_\_\_\_ to \_\_\_\_\_ No. 3, from \_\_\_\_\_ to \_\_\_\_\_  
No. 2, from \_\_\_\_\_ to \_\_\_\_\_ No. 4, from \_\_\_\_\_ to \_\_\_\_\_

**CASING RECORD**

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From—	To—	
10-3/4	32.75	3RD	Spang	1016	Float				Surface
HISTORY OF OIL OR GAS WELL									

**MUDDING AND CEMENTING RECORD**

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10-3/4	1016	600	Pump & Plug		
7"	1925	200	Pump & Plug		

**PLUGS AND ADAPTERS**

Heaving plug—Material \_\_\_\_\_ Length \_\_\_\_\_ Depth set \_\_\_\_\_

FOLD MARK

## SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out

## TOOLS USED

Rotary tools were used from 0 feet to 5326 feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet

Cable tools were used from \_\_\_\_\_ feet to \_\_\_\_\_ feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet

## DATES

November 17, 1958 Put to producing November 2, 1958

The production for the first 24 hours was 32.72 barrels of fluid of which 3.0 % was oil, \_\_\_\_\_ % emulsion; 97 % water; and \_\_\_\_\_ % sediment. Gravity, °Bé. 17.5

If gas well, cu. ft. per 24 hours \_\_\_\_\_ Gallons gasoline per 1,000 cu. ft. of gas \_\_\_\_\_

Rock pressure, lbs. per sq. in. \_\_\_\_\_ **\* Production now 100% water.**

## EMPLOYEES

\_\_\_\_\_, Driller \_\_\_\_\_, Driller

\_\_\_\_\_, Driller \_\_\_\_\_, Driller

## FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
		1263	Chinle
		1530	Shinerump
		1562	Moenkopi
		2038	Sinbad
		2200	Cocconino
		2830	Cutter
		2960	Permian Carbonates
		3200	Hermosa
		3775	Unweathered Mississippian
		4910	Elbert
		5170	Lynch
		5326	Total Depth
<b><u>PLEASE KEEP THIS INFORMATION CONFIDENTIAL</u></b>			
FROM—	TO—	TOTAL FEET	FORMATION

(OVER)

16-43094-4

FORMATION RECORD—Continued

DST #2 1807-1865

Tool open 2 hours, shut in 1 hour. Recovered 175' heavy black oil and 188' heavy oil cut mud. BHFP 100#-250#, SIP 273#, Hyd. 925#.

DST #3 1875-1942

Tool open 1 hour, shut in 30 minutes. Recovered 100' of drilling mud. BHFP 75#-100#, SIP 100#, Hyd. 1025#.

DST #4 1942-1982

Tool open 1 1/2 hours, shut in 1 hour. Recovered 280' mud and 1542' of black sulfur water. BHFP 800#-900#, SIP 900#, Hyd. 1050#.

DST #5 2041-2065

Tool open 2 hours, shut in 1 hour. Recovered 95' mud and 1225' black sulfur water. BHFP 75#-500#, SIP 800#, Hyd. 1050#.

DST #6

Tool open 2 hours, shut in 30 minutes. Recovered 90' mud and 1960' black sulfur water. BHFP 120#-922#, SIP 904#, Hyd. 1161#.

Equalized the following cement plugs:

- #1 50 sacks at 5250'.
- #2 50 sacks at 3850'.
- #3 150 sacks with 10% sand at 2100'.

Checked top of plug at 1729' after 12 hours. Cleaned out cement to 1925'. Underreamed 9" hole to 11" from 1775' to 1925'. Cemented 7" 20# J-55 ST&C casing at 1925' with 200 sacks. Perforated 1800' to 1885' with 6 jets per foot. Washed perms with 500 gallons mud acid. Seabbed 1.24 barrels new oil in 3 hours.

Sand fraced with 10,000# sand and 10,000 gallons Big Flat crude. Max. press. 1500#. Seabbed load oil and 2 barrels new oil 17.5°, 0.8% BSGW. Put well on pump.

11-8-58:	Pumped 82.72 bbls. fluid in 19 hours.	Pumped off.	2.49 bbls oil.	80.23 bbls wtr.
11-9-58:	Pumped 56.75 bbls. water in 14 1/2 hrs.	Pumped off.		56.75 bbls. wtr.
11-11-58:	Pumped 39.77 bbls. water in 3 hours.	Pumped off.		39.77 bbls. wtr.
11-12-58:	Pumped 55.43 bbls. water in 12 hours.	Pumped off.		55.43 bbls. wtr.
11-13-58:	Pumped 12.18 bbls water in 2-3/4 hrs.	Pumped off.		12.18 bbls. wtr.
11-14-58:	Pumped 12.60 bbls. water in 2-3/4 hrs.	Pumped off.		12.60 bbls. wtr.
11-15-58:	Pumped 12.14 bbls. water in 2 hours.	Pumped off.		12.14 bbls. wtr.
11-16-58:	Pumped 11.69 bbls. water in 2 1/2 hours.	Pumped off.		11.69 bbls. wtr.
11-17-58:	Pumped 11.27 bbls. water in 1 1/2 hours.	Pumped off.		11.27 bbls. wtr.
Total			2.49 bbls oil	298.66 bbls. wtr.

No oil produced. Water does not have rainbow of oil and production rate is continually declining. Removed rods, tubing and pumping unit. Tore out flow line and tanks. Welded steel plate over casing stub. Well temporarily abandoned pending further evaluation of the oil saturated zone.

# THE SUPERIOR OIL COMPANY

DRILLING & PRODUCTION DEPT.

P. O. BOX 200

CASPER, WYOMING

December 8, 1958

United States Geological Survey  
457 Federal Building  
Salt Lake City, Utah

Attention: Mr. D. F. Russell

Attached are three copies each of the Supplementary Well History, Log of Oil or Gas Well, and Subsequent Report of Temporary Abandonment on Iron Wash Unit #23-2, Emery County, Utah. Also enclosed are two copies of all the logs run on this well.

THE SUPERIOR OIL COMPANY

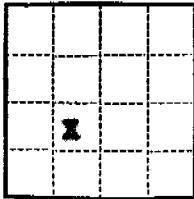
*W. H. Fraser*

W. H. Fraser DDK

DDK/cw

cc: w/attachment

Oil and Gas Conservation Commission  
310 Newhouse Building  
Salt Lake City 14, Utah



(SUBMIT IN TRIPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Land Office **State of Utah**  
Lease No. **ML 6602**  
Unit **Iron Wash**

**SUNDRY NOTICES AND REPORTS ON WELLS**

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NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL	<b>X</b>		

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

**5 August**, 19 **59**

**Iron Wash Unit**  
Well No. **25-1** is located **2099** ft. from **NE** line and **1885** ft. from **W** line of sec. **2**  
**NE SW Sec 2** **24 S** **13 E** **31.384**  
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)  
**Wildcat** **Emery** **Utah**  
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is **4531** ft.

**DETAILS OF WORK**

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

**Propose to pump 50 sack plug down 7" casing and displace same to 1675.**

**Propose to dump 10 sacks into top of 7" and also in annular space between 10-3/4" and 7" casing strings.**

**Will cut off both strings 4' below ground level and weld plate over same with a standard dry hole marker erected over hole.**

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company **THE SUPERIOR OIL CO.**  
**Drawer 6, Cortez, Colo.**  
Address \_\_\_\_\_

By **G. Panantier**  
**G. Panantier**

Title **Pet. Engr.**



State of Utah

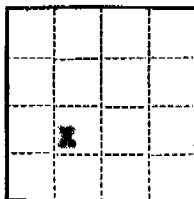
Land Office

ML 6602

Lease No.

Unit Iron Wash

(SUBMIT IN TRIPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

## SUNDRY NOTICES AND REPORTS ON WELLS

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NOTICE OF INTENTION TO ABANDON WELL.....	

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

10 August, 1959

Iron Wash Unit  
Well No. #23-2 is located 2099 ft. from {N  
S} line and 1885 ft. from {E  
W} line of sec. 2

NE SW Sec. 2      24S      13E      SLM  
(1/4 Sec. and Sec. No.)      (Twp.)      (Range)      (Meridian)

Wildcat      San Juan      Utah  
(Field)      (County or Subdivision)      (State or Territory)

The elevation of the derrick floor above sea level is 4531 ft.

## DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Spudded: 18 August 1958

Temporarily abandoned: 19 November 1958

Permanently Abandoned: 9 August 1959

T.D.: 5526'

P.B.T.D.: 1902'

10-3/4" cemented @ 1916' with 600 sacks.

7" cemented @ 1925' with 200 sacks.

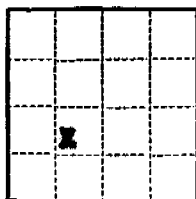
Perforations: 6 holes per foot from 1800' to 1885'.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company The Superior Oil Company

Address F. O. Drawer G  
Cortez, ColoradoBy G. Samantine  
G. Samantine

Title Petroleum Engineer



(SUBMIT IN TRIPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Budget Bureau No. 42-R358.4  
Approval expires 12-31-60.

State of Utah

Land Office

HL 6402

Lease No.

Iron Wash

Unit

SUNDRY NOTICES AND REPORTS ON WELLS

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NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....		SUBSEQUENT REPORT OF ABANDONMENT.....	X
NOTICE OF INTENTION TO PULL OR ALTER CASING.....		SUPPLEMENTARY WELL HISTORY.....	
NOTICE OF INTENTION TO ABANDON WELL.....			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

10 August 1959

Iron Wash Unit  
Well No. #23-2 is located 2099 ft. from {N  
S} line and 1885 ft. from {E  
W} line of sec. 2  
NE SW Sec. 2 24S 13E S1E  
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)  
Wildcat Energy Utah  
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 4331 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Spudded: 18 August 1958

Temporarily Abandoned: 19 November 1958

Permanently Abandoned: 9 August 1959

T.D.: 5326'

P.B.T.D.: 1902'

10-3/4" cemented @ 1016' with 600 sacks.

7" cemented @ 1925' with 200 sacks.

Perforations: 6 holes per foot from 1800' to 1885'.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company The Superior Oil Company

Address P. O. Drawer G

Cortez, Colorado

By

G. Sammutti  
O. Sammutti

Title Petroleum Engineer

Displaced 30 sack plug to 1670'. Final pressure 10000#.

Checked top of plug @ 1390'. Well continued to flow stream of water.

Displaced 30 sack plug to 1600'. Final pressure 10000#.

Checked top of plug @ 1436'. Well still flowing  $\frac{1}{2}$ " stream of water.

Displaced 25 sack plug to 1320'. Final pressure 20000#.

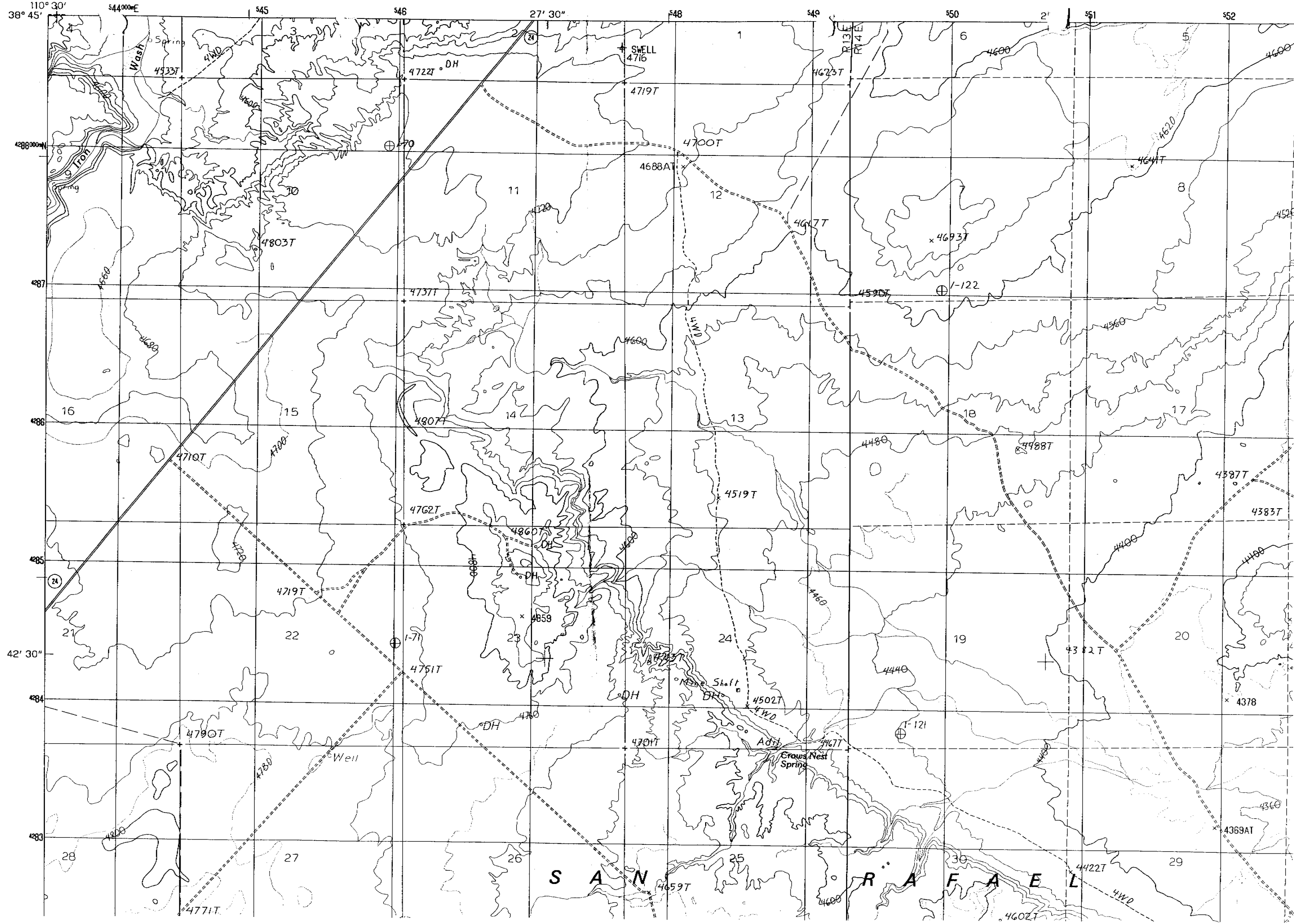
Checked plug after 12 hours. No water flow.

Dumped 5 sack plug down annulus between 10-3/4" & 6 7". Dumped 10 sacks into top of 7".

Cut off both strings of casing 4' below ground level and erected dry hole marker.

AUG 13 1959





6 1/2" pin

Trash  
sand line

Powderpote no lines

ML6602

Elev 4529

The Superior Oil Co.

Iron Wash Unit #23-2

NE/SW Sec 2 2/5 13E

Emery Co, Utah

